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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/773,973	02/06/2004	Christopher J. Davenport	200315375-1	7317
	7590 11/01/200 CKARD COMPANY	EXAMINER		
P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400			TRUONG, THANHNGA B	
			ART UNIT	PAPER NUMBER
		2135		
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			MAIL DATE	DELIVERY MODE
			11/01/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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:	Application No.	Applicant(s)				
	10/773,973	DAVENPORT ET AL.				
Office Action Summary	Examiner	Art Unit				
·	Thanhnga B. Truong	2135				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period was realiure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim 16(a) if apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. lety filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status .						
1) Responsive to communication(s) filed on 01 Au	<u>ıgust 2007</u> .					
,						
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the merits is				
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)[☑ Claim(s) <u>1-11,13,16,18-20 and 22-24</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)[X] Claim(s) <u>1-11, 13, 16, 18-20, 22-24</u> is/are reje	cted.					
7)[] Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.	•				
Application Papers						
9) The specification is objected to by the Examine	r					
,— .		Evaminer				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
The bath of declaration is objected to by the Ex	difficient to the diagnost of mos	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Priority under 35 U.S.C. § 119		•				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1 Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau	_					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D 5) Notice of Informal F					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:						

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DETAILED ACTION

1. This action is responsive to the communication filed on August 1, 2007. Claims 1-24 are pending. Claims 12, 14-15, 17, and 21 are canceled by the applicant. At this time, claims 1-11, 13, 16, 18-20, and 22-24 are still rejected.

Response to Arguments

2. Applicant's arguments with respect to claims 1-11, 13, 16, 18-20, 22-24 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4 Claims 1, 9, 13, 18, and 20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

a. Referring to claim 1:

It appears that the amended limitation cited "wherein said sign-on credentials are encrypted with the public key associated with the host server <u>for which</u> the sign-on credentials were most recently used to authenticate the user" is not clearly explained anywhere in the specification, specially for the limitation that underlined by the examiner. Applicant is required to point out where in the specification that teaches this limitation and appropriate correction is required.

b. Referring to claim 9:

It appears that the amended limitation cited "wherein said credentials are encrypted using a public key associated with the host server that the client workstation most recently accessed" is not clearly explained anywhere in the specification, specially for the limitation that underlined by the examiner. Applicant is required to point out where in the specification that teaches this limitation and appropriate correction is required.

c. Referring to claim 13:

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It appears that the amended limitation cited "decrypted, and then encrypted using a second public key associated with a second computer, the first public key being different than the second public key" is not clearly explained anywhere in the specification, specially for the limitation that underlined by the examiner. Applicant is required to point out where in the specification that teaches this limitation and appropriate correction is required.

d. Referring to claims 18 and 20:

It appears that the amended limitation cited "a different public key being associated with each of multiple means for hosting" is not clearly explained anywhere in the specification, specially for the limitation that underlined by the examiner. Applicant is required to point out where in the specification that teaches this limitation and appropriate correction is required.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-11, 13, 16, 18-20, 22-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Biswas et al (US 7,174,383 B1), and further in view of Fang et al (US 6,240,512 B1).

a. Referring to claim 1:

- i. Biswas teaches a system, comprising:
 - (1) a client workstation (see Figure 1, elements 104 and

108 of Biswas);

(2) a single sign-on ("SSO") server accessible to the client workstation (see Figure 1, elements 112, 104, and 108 and column 4, lines 7-16 of Biswas);

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(3) a plurality of host servers accessible to the client workstation, a unique public key being associated with each host server (see Figure 1, elements 114, 116, and 118 and column 3, line 14, lines 32-33 of Biswas);

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- (4) wherein access by the client workstation to a first host server causes the client workstation to be automatically re-directed to the SSO server and the SSO server causes the client workstation to request sign-on credentials from a user if the user has not signed on to any of the host servers, and wherein the first host server, not the SSO server, authenticates the user (see abstract and column 1, line 67 through column 2, line 8; column 3, lines 65 through column 4, line 17 of Biswas); and
- (5) wherein said sign-on credentials are used to authenticate the user upon accessing each host server (see abstract and column 2, lines 1-8 of Biswas).
- ii. Although Biswas teaches wherein said sign-on credentials are encrypted with the public key associated with the host server for which the sign-on credentials were most recently used to authenticate the user (column 4, lines 27-33 of Biswas), Biswas is silent on the capability of encrypting with the public key. On the other hand, Fang teaches this limitation in column 1, lines 45-55; column 10, lines 10-14 of Fang.
- iii. It would have been obvious to a person having ordinary skill in the art at the time the invention was made to:
- (1) have modified the invention of Biswas (if indeed token is not a public or private key) with the teaching of Fang for securing the password (e.g., public key) storage/management by implementing a single-sign-on (SSO) mechanism that coordinates logons to local and remote resources in a computer enterprise with preferably one ID and password (column 2, lines 18-27 of Biswas).
 - iv. The ordinary skilled person would have been motivated to:
- (1) have modified the invention of Biswas (if indeed token is not a public or private key) with the teaching of Fang to facilitate single-sign-on services in a hosting environment (column 1, lines 62-63 of Biswas).

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b. Referring to claim 2:

- i. Biswas further teaches:
- (1) upon being re-directed to the SSO server, the first host server supplies the SSO server with security information that is used to encrypt sign-on credentials (column 3, lines 65 through column 4, line 17 of Biswas).
 - b. Referring to claim 3:
 - i. Biswas further teaches:
- (1) wherein the user's sign-on credentials are stored in the client workstation (column 3, lines 25-30 of Biswas).
 - c. Referring to claim 4:
 - Biswas further teaches:
- (1) wherein the user's sign-on credentials are stored in the SSO server (column 4, lines 40-42 of Biswas).
 - d. Referring to claim 5:
 - i. Biswas further teaches:
- (1) after the first host server authenticates the user, the client workstation accesses a second host server which causes the client workstation to be automatically re-directed to the SSO server, and wherein the SSO server causes the sign-on credentials to be retrieved and used by the second host server to authenticate the user without the user supplying additional sign-on credentials (see abstract and column 1, line 67 through column 2, line 8; column 3, lines 65 through column 4, line 17 of Biswas).

e. Referring to claims 6 and 7:

- i. These claims have limitations that is similar to those of claims 3 and 4, thus they are rejected with the same rationale applied against claims 3 and 4 above. Furthermore, cookie is stored in the web browser for later use. The next time user go to the same website, user's browser will send the cookie to the web server. as shown in Figure 2 of user computer. In addition, token is cookie (column 3, lines 60-64 of Biswas).
 - f. Referring to claim 8:

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i. Biswas further teaches:

(1) after requesting sign-on credentials from the user, the client workstation is automatically re-directed back to the first host server to authenticate the user (see abstract and column 1, line 67 through column 2, line 8; column 3, lines 65 through column 4, line 17 of Biswas).

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g. Referring to claim 9:

- i. Biswas teaches a client workstation configured to access any one or more of a plurality of services (see Figures 1 and 2 of Biswas), comprising:
- (1) a CPU; an input device coupled to the CPU; and storage coupled to the CPU (see Figures 1-2 and column 3, lines 8-19; column 4, lines 17-34 of Biswas), said storage containing a browser that is executed by the CPU and that causes the workstation to:
- (2) browse to a service that runs in a host server (see Figure 2, element 202 and column 4, lines 25-28 of Biswas);
- (3) automatically re-direct to a single sign-on ("SSO") server; and permit the host server to authenticate a user either by requiring the user to enter credentials via the input device if the user has not already signed-on to a service and providing the credentials to the host server or, without the user entering credentials, by providing credentials previously stored in the storage to the host server if the user has already signed-on to a service and providing the credentials to the host server (see abstract and column 1, line 67 through column 2, line 8; column 3, lines 65 through column 4, line 17 of Biswas);
- (4) wherein said credentials are encrypted using a public key associated with the host server that the client workstation most recently accessed (see abstract and column 2, lines 1-8 of Biswas).
- ii. Although Biswas teaches wherein said sign-on credentials are encrypted with the public key associated with the host server for which the sign-on credentials were most recently used to authenticate the user (column 4, lines 27-33 of Biswas), Biswas is silent on the capability of encrypting with the public key. On the

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other hand, Fang teaches this limitation in column 1, lines 45-55; column 10, lines 10-14 of Fang

- iii. It would have been obvious to a person having ordinary skill in the art at the time the invention was made to:
- (1) have modified the invention of Biswas (if indeed token is not a public or private key) with the teaching of Fang for securing the password (e.g., public key) storage/management by implementing a single-sign-on (SSO) mechanism that coordinates logons to local and remote resources in a computer enterprise with preferably one ID and password (column 2, lines 18-27 of Biswas).
 - iv. The ordinary skilled person would have been motivated to:
- (1) have modified the invention of Biswas (if indeed token is not a public or private key) with the teaching of Fang to facilitate single-sign-on services in a hosting environment (column 1, lines 62-63 of Biswas).
 - h. Referring to claim 10:
 - i. Biswas further teaches:
- (1) the CPU (column 3, lines 8-19) further causes the workstation to be re-directed back to the service to permit the host server to authenticate the user (see abstract and column 1, line 67 through column 2, line 8; column 3, lines 65 through column 4, line 17 of Biswas).
 - i. Referring to claim 11:
 - Biswas further teaches:
- (1) wherein the credentials are stored in the storage (column 4, lines 14-16 and lines 40-42 of Biswas).
 - j. Referring to claim 12:
 - i. This claim is canceled by the applicant
 - k. Referring to claims 13, 16, and 18-19:
- i. These claims have limitations that is similar to those of claims 1-11, thus they are rejected with the same rationale applied against claim 11 above.

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- ii. As for claim 16, Biswas further teaches wherein the CPU decrypts the credentials using the private key associated with the host computer (column 4, lines 51-55 of Biswas).
- 4, lines 27-33 of Biswas), Biswas is silent on the capability of decrypting the credentials using the private key. On the other hand, Fang teaches this limitation in column 1, lines 50-55; column 10, lines 10-14 of Fang.
- iv. It would have been obvious to a person having ordinary skill in the art at the time the invention was made to:
- (1) have modified the invention of Biswas (if indeed token is not a public or private key) with the teaching of Fang for securing the password (e.g., public key) storage/management by implementing a single-sign-on (SSO) mechanism that coordinates logons to local and remote resources in a computer enterprise with preferably one ID and password (column 2, lines 18-27 of Biswas).
 - v. The ordinary skilled person would have been motivated to:
- (1) have modified the invention of Biswas (if indeed token is not a public or private key) with the teaching of Fang to facilitate single-sign-on services in a hosting environment (column 1, lines 62-63 of Biswas).
 - I. Referring to claims 20, 22-24:
- i. These claim consist a computer program product for making trust management determinations to implement claims 1 and 9, they are rejected with the same rationale applied against claim 12 above.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action

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is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

this communication Anv inquiry concerning earlier communications from the examiner should be directed to Thanhnga (Tanya) Truong whose telephone number is 571-272-3858.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor. Kim Vu can be reached at 571-272-3859. The fax and phone numbers for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2100.

TBT

October 14, 2007

hanhog B. Im Primary Examiner AUZI35

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